

Quality Control Statistical Summary

Onshore Grab Sample: SJ-06-BB

Sample Taken By: J. Ladner
 Sample Taken On: 12/02/03
 County: St. Johns

Latitude: 30° 11' 5.9"
 Longitude: 81° 21' 41.7"
 Datum: WGS 84

Statistical Results: Pre-CaCO3				
	Duplicate		Original	
Mean:	2.0482	phi (0.2418 mm)	2.0246	phi (0.2458 mm)
Standard Dev:	0.3313	phi-units (0.7948 mm)	0.4225	phi-units (0.7461 mm)
Skewness:	-0.0980	dimensionless	-1.2077	dimensionless
Kurtosis:	6.3214	dimensionless	11.7537	dimensionless
5th Moment:	-17.9373	dimensionless	-60.1884	dimensionless
6th Moment:	224.4358	dimensionless	447.5287	dimensionless
RARD*:	0.1617	dimensionless	0.2087	dimensionless
Median:	1.9107	phi (0.266 mm)	1.9029	phi (0.2674 mm)

Statistical Results: CaCO3				
	Duplicate		Original	
Mean:	1.9449	phi (0.2597 mm)	1.5203	phi (0.3486 mm)
Standard Dev:	0.5694	phi-units (0.6739 mm)	1.0780	phi-units (0.4737 mm)
Skewness:	-1.2420	dimensionless	-1.1666	dimensionless
Kurtosis:	8.6308	dimensionless	3.5271	dimensionless
5th Moment:	-31.4576	dimensionless	-6.3694	dimensionless
6th Moment:	163.5186	dimensionless	17.0522	dimensionless
RARD*:	0.2928	dimensionless	0.7091	dimensionless
Median:	1.7708	phi (0.293 mm)	1.8073	phi (0.2857 mm)

Statistical Results: Post-CaCO3				
	Duplicate		Original	
Mean:	2.0512	phi (0.2413 mm)	2.0416	phi (0.2429 mm)
Standard Dev:	0.3225	phi-units (0.7997 mm)	0.3737	phi-units (0.7718 mm)
Skewness:	0.2536	dimensionless	0.1761	dimensionless
Kurtosis:	4.6380	dimensionless	4.2005	dimensionless
5th Moment:	3.1669	dimensionless	2.7401	dimensionless
6th Moment:	85.9586	dimensionless	47.7320	dimensionless
RARD*:	0.1572	dimensionless	0.1830	dimensionless
Median:	1.9174	phi (0.2647 mm)	1.9054	phi (0.2669 mm)

Additional Data	
Total Fines	
Original:	0.32 %
Duplicate:	0.42 %
Total Carbonates	
Original:	3.01 %
Duplicate:	1.98 %

Statistical Explanation	
Calculations based on the Method of Moments Skewness: 3rd Stand. Moment; Exact Gaussian = 0.0 Kurtosis: 4th Stand. Moment; Exact Gaussian = 3.0 Millimeter data calculated by $mm = 2^{-(\phi)}$	
* Reciprocal Absolute Relative Dispersion (RARD) Scale	
< 0.5	Excellent homogeneity (e.g., beaches)
0.5 to 1.0	Good homogeneity
1.0 to 1.33	Fair homogeneity
> 1.33	Poor homogeneity (e.g., glacial)

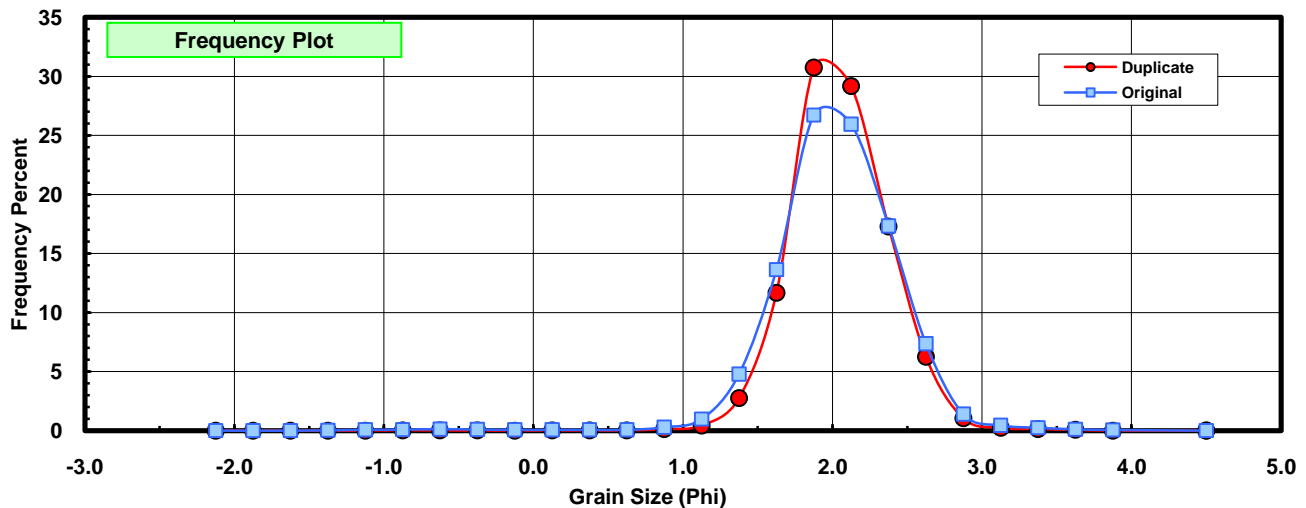
Pre-Digestion Grain Size Distribution

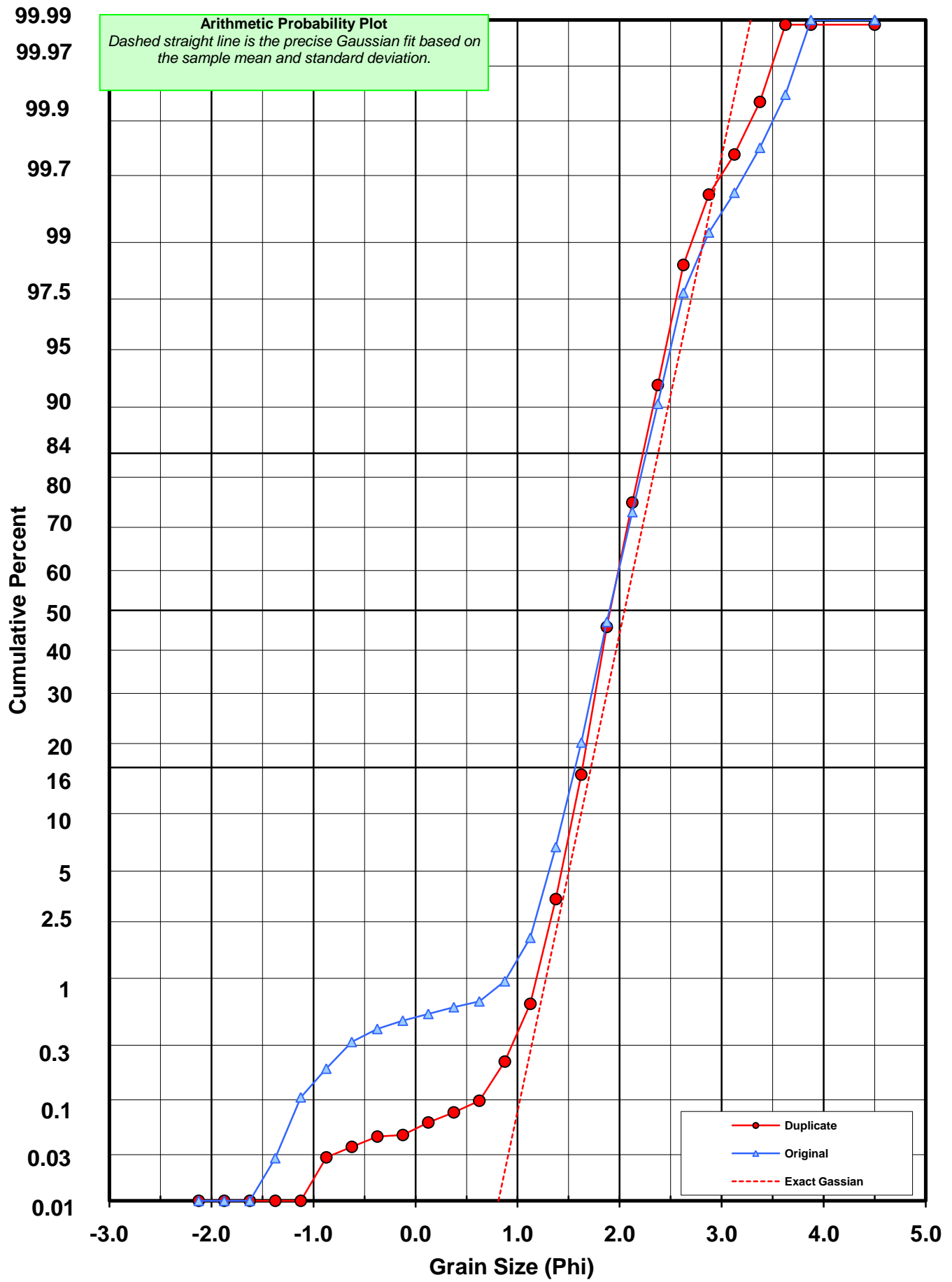
Onshore Grab Sample: SJ-06-BB

Total Duplicate Sample Mass: 62.281 grams

Total Original Sample Mass: 70.501 grams

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000	0.020	0.028	0.028
-1.00	-1.125	0.000	0.000	0.000	0.054	0.077	0.105
-0.75	-0.875	0.018	0.029	0.029	0.058	0.082	0.187
-0.50	-0.625	0.005	0.008	0.037	0.092	0.130	0.318
-0.25	-0.375	0.006	0.010	0.047	0.064	0.091	0.409
0.00	-0.125	0.001	0.002	0.048	0.049	0.070	0.478
0.25	0.125	0.009	0.014	0.063	0.045	0.064	0.542
0.50	0.375	0.009	0.014	0.077	0.050	0.071	0.613
0.75	0.625	0.013	0.021	0.098	0.048	0.068	0.681
1.00	0.875	0.073	0.117	0.215	0.202	0.287	0.967
1.25	1.125	0.271	0.435	0.650	0.692	0.982	1.949
1.50	1.375	1.721	2.763	3.414	3.380	4.794	6.743
1.75	1.625	7.272	11.676	15.090	9.613	13.635	20.379
2.00	1.875	19.151	30.749	45.839	18.840	26.723	47.102
2.25	2.125	18.163	29.163	75.002	18.290	25.943	73.045
2.50	2.375	10.762	17.280	92.282	12.226	17.342	90.387
2.75	2.625	3.891	6.247	98.529	5.186	7.356	97.743
3.00	2.875	0.648	1.040	99.570	0.986	1.399	99.142
3.25	3.125	0.146	0.234	99.804	0.312	0.443	99.584
3.50	3.375	0.080	0.128	99.933	0.172	0.244	99.828
3.75	3.625	0.038	0.061	99.994	0.080	0.113	99.942
4.00	3.875	0.000	0.000	99.994	0.041	0.058	100.000
5.00	4.500	0.000	0.000	99.994	0.000	0.000	100.000
5.00	4.500	0.004	0.006	100.000	0.001	0.001	100.001



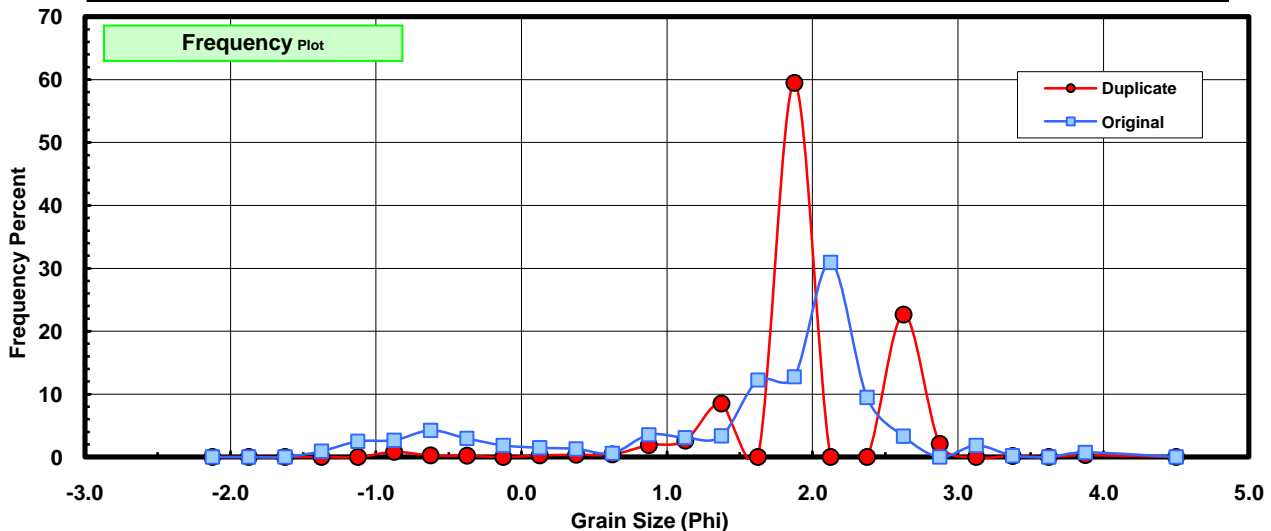


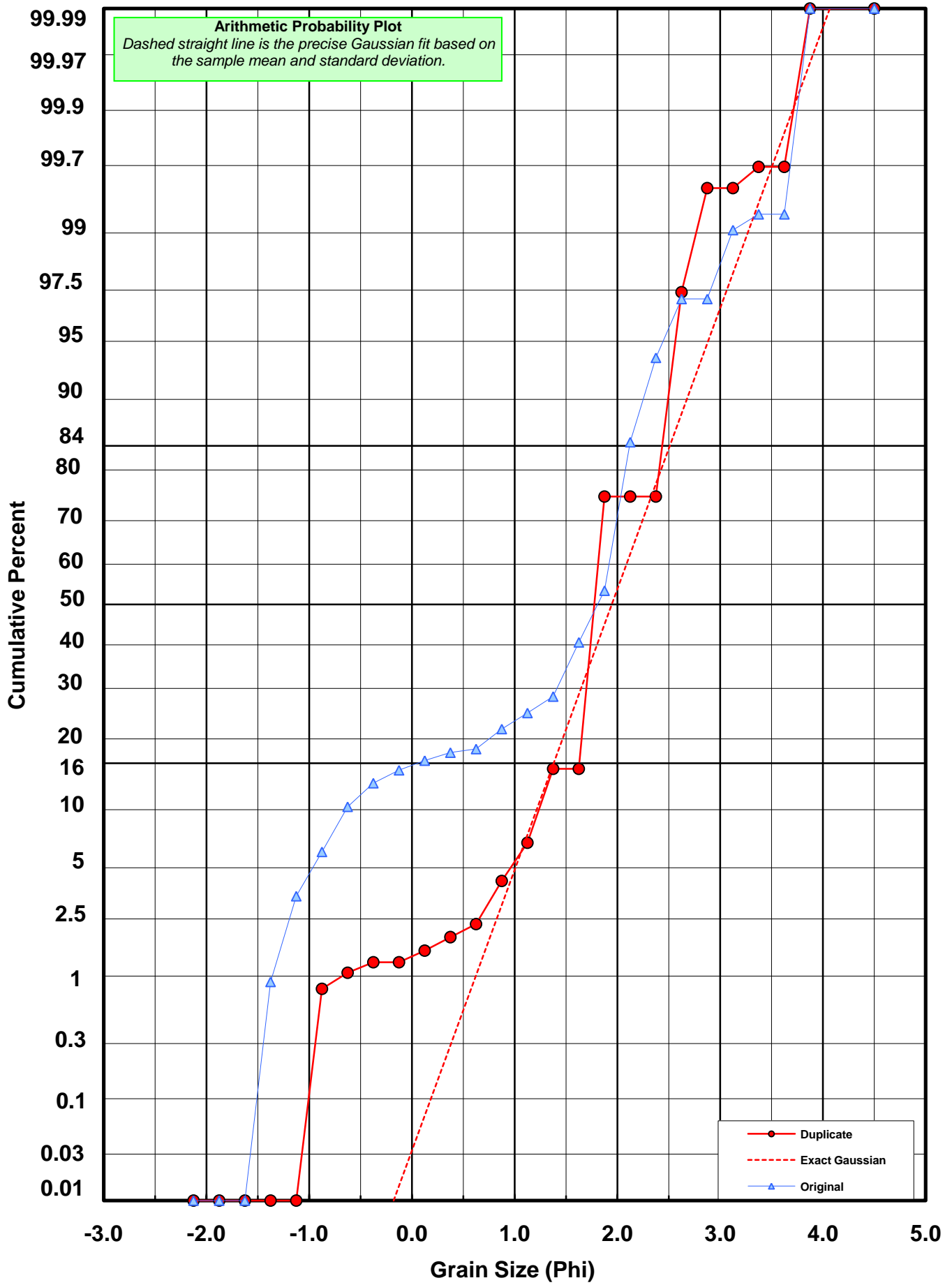
Carbonate Grain Size Distribution

Onshore Grab Sample: SJ-06-BB

Total Duplicate Carbonate Mass: 1.960 grams
% Carbonate in Duplicate: 2.0 %
Total Original Carbonate Mass: 2.172 grams
% Carbonate in Original: 3.0 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight of Dupl (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000	0.020	0.921	0.921
-1.00	-1.125	0.000	0.000	0.000	0.054	2.486	3.407
-0.75	-0.875	0.016	0.816	0.816	0.058	2.670	6.077
-0.50	-0.625	0.005	0.255	1.071	0.092	4.236	10.313
-0.25	-0.375	0.004	0.204	1.276	0.064	2.947	13.260
0.00	-0.125	0.000	0.000	1.276	0.040	1.842	15.101
0.25	0.125	0.005	0.255	1.531	0.032	1.473	16.575
0.50	0.375	0.007	0.357	1.888	0.028	1.289	17.864
0.75	0.625	0.008	0.408	2.296	0.013	0.599	18.462
1.00	0.875	0.037	1.888	4.184	0.077	3.545	22.007
1.25	1.125	0.051	2.602	6.786	0.067	3.085	25.092
1.50	1.375	0.167	8.520	15.306	0.073	3.361	28.453
1.75	1.625	0.000	0.000	15.306	0.266	12.247	40.700
2.00	1.875	1.166	59.490	74.796	0.277	12.753	53.453
2.25	2.125	0.000	0.000	74.796	0.672	30.939	84.392
2.50	2.375	0.000	0.000	74.796	0.206	9.484	93.877
2.75	2.625	0.444	22.653	97.449	0.072	3.315	97.192
3.00	2.875	0.041	2.092	99.541	0.000	0.000	97.192
3.25	3.125	0.000	0.000	99.541	0.040	1.842	99.033
3.50	3.375	0.003	0.153	99.694	0.005	0.230	99.263
3.75	3.625	0.000	0.000	99.694	0.000	0.000	99.263
4.00	3.875	0.006	0.306	100.000	0.016	0.737	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000
5.00	4.500	0.000	0.000	100.000	0.000	0.000	100.000





Post-Digestion Grain Size Distribution

Onshore Grab Sample: SJ-06-BB

Total Duplicate Digested Mass: 61.068 grams
% Silica in Duplicate: 98.0 %
Total Original Digested Mass: 68.382 grams
% Silica in Original: 97.0 %

Sieve Size (phi)	Sieve Midpt (phi)	Weight (grams)	Freq Weight %	Cumulative Weight %	Weight of Original (grams)	Freq Weight %	Cumulative Weight %
-2.00	-2.125	0.000	0.000	0.000	0.000	0.000	0.000
-1.75	-1.875	0.000	0.000	0.000	0.000	0.000	0.000
-1.50	-1.625	0.000	0.000	0.000	0.000	0.000	0.000
-1.25	-1.375	0.000	0.000	0.000	0.000	0.000	0.000
-1.00	-1.125	0.000	0.000	0.000	0.000	0.000	0.000
-0.75	-0.875	0.002	0.003	0.003	0.000	0.000	0.000
-0.50	-0.625	0.000	0.000	0.003	0.000	0.000	0.000
-0.25	-0.375	0.002	0.003	0.007	0.000	0.000	0.000
0.00	-0.125	0.003	0.005	0.011	0.009	0.013	0.013
0.25	0.125	0.004	0.007	0.018	0.013	0.019	0.032
0.50	0.375	0.002	0.003	0.021	0.022	0.032	0.064
0.75	0.625	0.005	0.008	0.029	0.035	0.051	0.116
1.00	0.875	0.036	0.059	0.088	0.125	0.183	0.298
1.25	1.125	0.220	0.360	0.449	0.625	0.914	1.212
1.50	1.375	1.554	2.545	2.993	3.307	4.836	6.048
1.75	1.625	7.584	12.419	15.412	9.347	13.669	19.717
2.00	1.875	17.985	29.451	44.863	18.563	27.146	46.863
2.25	2.125	18.487	30.273	75.136	17.618	25.764	72.627
2.50	2.375	10.830	17.734	92.870	12.020	17.578	90.205
2.75	2.625	3.447	5.645	98.515	5.114	7.479	97.684
3.00	2.875	0.607	0.994	99.509	1.012	1.480	99.164
3.25	3.125	0.157	0.257	99.766	0.272	0.398	99.561
3.50	3.375	0.077	0.126	99.892	0.167	0.244	99.806
3.75	3.625	0.047	0.077	99.969	0.104	0.152	99.958
4.00	3.875	0.015	0.025	99.993	0.025	0.037	99.994
5.00	4.500	0.000	0.000	99.993	0.000	0.000	99.994
5.00	4.500	0.004	0.007	100.000	0.004	0.006	100.000

